

**CONSTRUCTION OPERATIONS PLAN**  
(CONFORMS TO AC 150-5370-2E "OPERATION SAFETY ON AIRPORTS DURING CONSTRUCTION")  
RESTRICTED AREAS /SAFETY AREAS

A. RUNWAYS, TAXIWAYS, AND APRON: CONSTRUCTION ACTIVITY ADJACENT TO THE RUNWAYS, TAXIWAYS, AND APRONS WHICH WILL BE IN USE SHALL BE COORDINATED WITH THE AIRPORT MANAGER. CONSTRUCTION ACTIVITY WILL BE AUTHORIZED AFTER NOTAMS (NOTICES TO AIRMEN) HAVE BEEN ISSUED BY THE AIRPORT. AFTER MARKING BARRICADE AND LIGHTING PROVISIONS HAVE BEEN IMPLEMENTED BY THE CONTRACTOR, AND AFTER IT HAS BEEN DETERMINED THAT THE HEIGHT OF EQUIPMENT AND MATERIALS IS BEYOND THE REACH OF THE AIRCRAFT OR SAFELY BELOW ANY PART OF THE AIRCRAFT USING THE OPERATIONS AREAS WHICH MIGHT OVERHANG THESE AREAS, INFORMATION FOR RUNWAY APPROACHES AND OTHER AREAS WILL BE SUPPLIED BY THE ENGINEER IF IT IS REQUIRED.

B. EXCEPT AS PROVIDED ON THE CONTRACT PLANS OR IN CONTRACT SPECIAL PROVISIONS OR AS MAY BE AUTHORIZED BY THE ENGINEER IN WRITING, THE CONTRACTOR SHALL NOT PERFORM CONSTRUCTION ACTIVITIES WITHIN 80 FEET OF THE EDGE OF AN ACTIVE TAXIWAY OR APRON, WITHIN 200 FEET OF AN ACTIVE RUNWAY CENTERLINE, OR WITHIN 1000 FEET OF A RUNWAY END, WHEN SO AUTHORIZED TO PERFORM CONSTRUCTION ACTIVITIES WITHIN SUCH AREAS, THE CONTRACTOR SHALL FIRST IMPLEMENT APPROPRIATE MARKING AND LIGHTING PROVISIONS.

C. EXCAVATION AND OPEN TRENCHES LOCATED WITHIN 200 FEET FROM THE CENTERLINE OF AN ACTIVE RUNWAY SHALL BE ADEQUATELY SIGNED, MARKED AND LIGHTED. EXCAVATIONS AND OPEN TRENCHES LOCATED ADJACENT TO TAXIWAY AND APRON PAVEMENTS SHALL BE ADEQUATELY SIGNED, MARKED, AND LIGHTED.

D. EQUIPMENT AND MATERIALS SHALL NOT BE STORED OR PARKED WITHIN 750 FEET FROM THE CENTERLINE OF AN ACTIVE RUNWAY AND WITHIN 250 FEET FROM THE CENTERLINE OF AND ACTIVE TAXIWAY, UNLESS SPECIFICALLY PROVIDED IN THE CONTRACT SPECIAL PROVISIONS OR AUTHORIZED IN WRITING BY THE ENGINEER. MAXIMUM EQUIPMENT HEIGHT SHALL BE 36 FEET. UNLESS AUTHORIZED BY THE ENGINEER IN WRITING, DEBRIS SHALL NOT BE DEPOSITED ON ANY PORTION OF AN OPERATIONAL RUNWAY, TAXIWAY OR APRON. SHOULD ANY DEBRIS BE DEPOSITED ACCIDENTALLY, IT SHALL BE REMOVED IMMEDIATELY.

E. CLOSING OF RUNWAY OR TAXIWAYS: SHOULD IT BECOMES NECESSARY TO CLOSE A RUNWAY OR TAXIWAY OR TO CHANGE OPERATIONS, CONTRACTOR, THROUGH ENGINEER, SHALL SEEK THE APPROVAL OF THE AIRPORT MANAGER 48 HOURS IN ADVANCE OF CLOSING RUNWAY 1836 OR RUNWAY 1028 AND 24 HOURS IN ADVANCE OF CLOSING ANY TAXIWAY. NO RUNWAY OR TAXIWAY CLOSURES ARE ANTICIPATED.

F. OPEN-FLAME WELDING OR TORCH-CUTTING OPERATIONS ARE PROHIBITED UNLESS ADEQUATE FIRE AND SAFETY PRECAUTIONS ARE PROVIDED AND HAVE BEEN APPROVED BY THE AIRPORT. ALL VEHICLES ARE TO BE PARKED AND SERVICED BEHIND THE CONSTRUCTION LINE 750 FEET OR MORE FROM AN ACTIVE RUNWAY CENTERLINE AND AT LEAST 250 FEET FROM CENTERLINE OF ACTIVE TAXIWAY.

MARKING AND LIGHTING

A. CONSTRUCTION EQUIPMENT: ALL CONSTRUCTION EQUIPMENT MUST BE MARKED WITH A 3 FEET X 3 FEET ORANGE AND WHITE CHECKERED FLAG AND/OR AMBER BEACON. FOR NIGHTTIME CONSTRUCTION, ALL EQUIPMENT MUST BE LIGHTED.

B. EXCAVATION/STOCKPILES: EXCAVATION ADJACENT TO PAVED SURFACES MUST BE APPROPRIATELY MARKED BY BARRICADES.

C. THE CONTRACTOR SHALL FURNISH AND PLACE PORTABLE BARRICADES ACROSS RUNWAYS OR TAXIWAYS TO KEEP VEHICLES FROM ENTERING ACTIVE AREAS AND TO KEEP AIRCRAFT FROM TAXING INTO AREAS UNDER CONSTRUCTION. CARE SHALL BE EXERCISED BY CONTRACTOR DURING CONSTRUCTION ADJACENT TO RUNWAYS AND TAXIWAYS NOT TO PLACE BARRICADES CLOSER THAN THE CLEAR DISTANCE STATED IN THESE SPECIAL PROVISIONS. CONTRACTOR WILL BE RESPONSIBLE FOR PROVISIONS OF EVENLY GRADED TRANSITION, USING BASE COURSE MATERIAL AT SAME GRADE AS REMAINING PAVEMENT. TRANSITION SHALL BE NO STEEPER THAN 10:1 SLOPE.

D. BARRICADES SHALL BE NO LESS THAN 18 INCHES NOR MORE THAN 24 INCHES IN HEIGHT, INCLUDING BLINKING LIGHTS. ADJACENT BARRICADES SHALL BE CONNECTED WITH HIGH VISIBILITY (BRIGHT YELLOW) POLYETHYLENE BARRICADE TAPE MINIMUM 3 INCHES WIDE. SPACING OF BARRICADES SHALL BE A MAXIMUM 20 FEET CENTER TO CENTER. BARRICADES SHALL BE ADEQUATELY WEIGHTED SO AS TO WITHSTAND WIND, PROPELLER OR JET BLASTS. BARRICADES SHALL HAVE ALTERNATING STRIPES OF REFLECTORIZED WHITE AND ORANGE, AT NIGHT, BARRICADES SHALL BE EQUIPPED WITH RED BLINKING LIGHTS.

FUEL SUPPORT

A. ANY TYPE OF FUELING SUPPORT FACILITY OR DEVICE USED TO REFUEL CONSTRUCTION EQUIPMENT IS SUBJECT TO LOCAL FIRE INSPECTION. LOCAL FIRE CODES AND SAFETY STANDARDS SHALL BE MET PRIOR TO COMMENCEMENT OF WORK.

SWEEPING / CLEANUP

A. THE CONTRACTOR SHALL HAVE SWEEPING OR VACUUMING CAPABILITIES ON-SITE IN ORDER TO REMOVE DEBRIS AS IT OCCURS. UPON COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THE AREA OF CONCERN IS RETURNED TO ITS ORIGINAL CONDITION. DEBRIS SHALL NOT BE DEPOSITED ON ANY PORTION OF AN OPERATIONAL RUNWAY, TAXIWAY OR APRON. SHOULD ANY DEBRIS BE DEPOSITED ACCIDENTALLY, IT SHALL BE REMOVED IMMEDIATELY.

B. CONTRACTOR SHALL USE ALL MEANS NECESSARY THAT ARE APPROVED BY THE ENGINEER TO MINIMIZE DUST DURING CONSTRUCTION OPERATIONS.

HAUL ROUTES

A. HAUL ROUTES AND ACCESS TO THE CONSTRUCTION SITES WILL BE DISCUSSED AT THE PRE-BID CONFERENCE, AND ARE DEPICTED ON THE CONSTRUCTION OPERATION PLAN.

B. CONTRACTOR SHALL COORDINATE THE LOCATION OF ANY CROSSING OF UNDERGROUND ELECTRICAL CIRCUITS WITH THE AIRPORT STAFF IN AN EARLY OPERATION. ANY ELECTRICAL CIRCUITS CROSSED SHALL THEN BE CHECKED FOR RESISTANCE TO GROUND BY THE CONTRACTOR, AND WITNESSED BY THE ENGINEER PRIOR TO THE START OF CONSTRUCTION AND ALL CIRCUITS SHALL HAVE 50 MEGOHM OR GREATER RESISTANCE PRIOR TO CONTRACTOR CROSSING THE CIRCUIT. THE CONTRACTOR, UNDER SUPERVISION OF ENGINEER OR AIRPORT STAFF, SHALL CHECK CIRCUITS AFTER CESSATION OF HAULING. ANY CIRCUIT SHOWING LESS THEN 50 MEGOHM SHALL BE CORRECTED BY CONTRACTOR AT NO ADDITIONAL COMPENSATION SO AS TO PROVIDE AT LEAST 50 MEGOHMS RESISTANCE IN THAT CIRCUIT. NO ADDITIONAL COMPENSATION WILL BE MADE FOR ANY CORRECTIVE ELECTRICAL WORK DUE TO CONTRACTOR'S OPERATIONS.

HAUL ROUTES (CONT.)

C. THE CONTRACTOR SHALL CONDUCT OPERATIONS ON THE AIRPORT IN A MANNER THAT WILL MINIMIZE INTERFERENCE WITH THE NORMAL OPERATION OF THOSE AIRPORT FACILITIES THAT ARE DESIGNATED UNDER THIS CONTRACT TO REMAIN OPEN TO AIR TRAFFIC AND SHALL IMPLEMENT ALL SPECIFIED AND OTHER APPROPRIATE MEASURES TO ENSURE THE SAFETY OF ALL USERS OF THE AIRPORT.

D. THE CONTRACTOR SHALL PROVIDE "25 MPH SPEED LIMIT" SIGNS AND "HAUL ROUTE" SIGNS WHEN HAULING ON THE AIRPORT.

OPERATIONS ON THE AIRPORT

A. ENTERING ACTIVE AIRCRAFT OPERATION AREAS: THE AIRPORT IS UNCONTROLLED. THE CONTRACTOR IS RESPONSIBLE TO FURNISH AND MONITOR A RADIO WITH FREQUENCY 123.7 MHZ AND 121.6MHZ AND TO HAVE APPROVED PERSONNEL MONITOR AND RESPOND ON THIS FREQUENCY AS REQUIRED. RADIO OPERATIONS PERSON SHALL BE EXAMINED AND APPROVED BY AIRPORT MANAGER PRIOR TO USING RADIOS.

ENFORCEMENT

A. VIOLATION OF THESE RULES AND REGULATIONS, DEPENDING UPON SEVERITY OF THE VIOLATION, MAY RESULT IN ONE OR MORE OF THE FOLLOWING:  
1. A VERBAL AND/OR WRITTEN WARNING.  
2. THE CONTRACT WORK BEING STOPPED UNTIL CORRECTIVE MEASURES ARE TAKEN TO PRECLUDE A REOCCURENCE OF THE VIOLATIONS.  
3. REMOVAL FROM PROJECT.

MEETINGS AND CORRESPONDENCE



A. AIRPORT SHALL ISSUE ALL NOTAMS  
B. CONTRACTOR IS REQUIRED TO ATTEND BI-WEEKLY COORDINATION MEETINGS AT WHICH TIME SAFETY ISSUES WILL BE DISCUSSED.

GENERAL NOTES

A. THE CRITICAL AIRCRAFT TYPE USED FOR REFERENCE DURING THIS CONSTRUCTION PROJECT IS DESIGN GROUP II.  
B. BARRICADES SHALL BE PLACED IN THE GENERAL AREAS AS SHOWN ON THE PLANS, SPECIFIC LOCATIONS, DURING AND AFTER CONSTRUCTION HOURS, SHALL BE COORDINATED THROUGH THE AIRPORT DIRECTOR, IN ACCORDANCE WITH FAA REGULATIONS AND PROJECT SPECIFICATIONS.  
C. RUNWAYS 10/28 AND 18/36 SHALL REMAIN OPERABLE THROUGHOUT THE ENTIRE CONSTRUCTION PERIOD.  
D. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR CONSTRUCTION OPERATIONS ON THE AIRPORT.

DESIGN NOTES

A. DESIGN OF THIS PROJECT MEETS ALL FAA STANDARDS, INCLUDING AC 150/5300-13, AND AC 150/5300-1.  
B. ALL CONSTRUCTION STANDARDS CONFORM TO FAA - AC 150/5370-2C, PPM 5370.2 AND PPM 5370.5A.

			
DATE <u>NOVEMBER 2004</u>		WAUKESHA COUNTY AIRPORT	
DESIGNED <u>SAH</u> DRAWN <u>SAH</u> CHECKED <u>WMS</u>		CONSTRUCTION OPERATIONS PLAN	
		JOB NO. 23127-10-04002 DWG NO. 1026760.1a SHEET NO. 2 of 8	
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